



Fig. 1

Formulation components and physical properties of substrate materials synthesized in examples and the comparative example

	Synthetic resin			Diglycidyl ether of bisphenol A epoxy resin(g)	Hardener DDS(g)	Al(OH) <sub>3</sub> (g)	Al <sub>2</sub> O <sub>3</sub> (g)	Solvent DMF(g)	Tg (TMA, °C)	K (W/m·°C)	UL 94
	Epoxy resin of cresol novolac type(g)	Retardant (g)	Solvent, DMF (g)								
Example 1	530	453.2	245.8	912.3g	369.7	1372	484.2	645.6	165	7.3	V0
Example 2	530	453.2	245.8	912.3g	369.7	1856.2	---	645.6	161	3.1	V0
Comparative example	530	453.2	245.8	912.3g	369.7	---	---	645.6			V2

Fig. 2